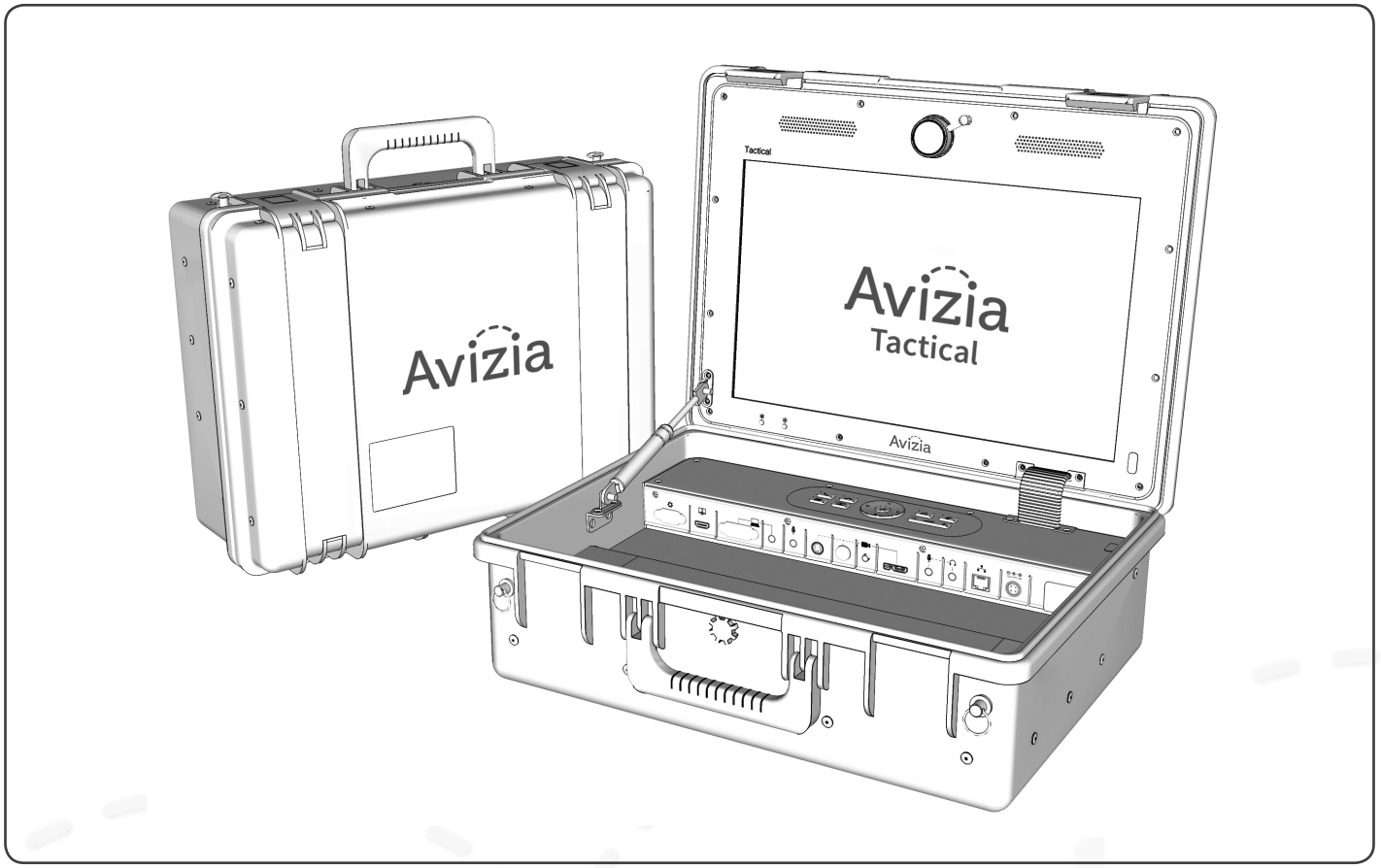
Avizia Tactical

USER AND INSTALLATION GUIDE



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NOTE: The Tactical's Cisco TelePresence SX20 Codec must first be provisioned and configured on an appropriate network to place telepresence calls.

Please refer to the following URL for information about provisioning, configuration, and operation of the SX20 Codec:

http://www.cisco.com/go/telepresence/docs

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Important Safety Instructions

This warning symbol means danger. You are in a situation that could cause bodily injury. Before you work on any equipment, be aware of the hazards involved with electrical circuitry and be familiar with standard practices for preventing accidents.

NOTE: **SAVE THESE INSTRUCTIONS**

Read this guide before connecting the system to a power source.

Ultimate disposal of this product should be handled according to all national laws and regulations.

Power Cable and DC Adapter

When installing the product, please use the provided or designated cables/power adaptors. Using any other cables/adaptors could cause a malfunction or a fire. Electrical Appliance and Material Safety Law prohibits the use of UL-certified cables (that have the “UL” shown on the code) for any other electrical devices other than products designated by Avizia. The use of cables that are certified by Electrical Appliance and Material Safety Law (that have “PSE” shown on the code) is not limited to Avizia-designated products.

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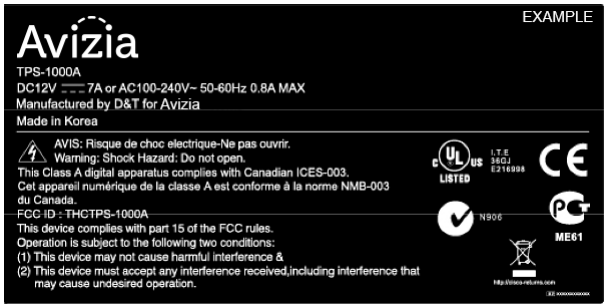
Operator Safety Summary

For your protection, please read these safety instructions completely before operating the equipment and keep this manual for future reference. The information in this summary is intended as general guidance for those who operate the equipment as well as repair (servicing) personnel. Carefully observe all warnings, precautions and instructions on the system, or the ones described in the operating instructions and adhere to them.

Equipment Markings


EXAMPLE
Avizia
TPS-1000A
DC12V 7A or AC100-240V~ 50-60Hz 0.8A MAX
Manufactured by D&T for Avizia
Made in Korea
AVIS: Risque de choc electrique-Ne pas ouvrir.
Warning: Shock Hazard: Do not open.
This Class A digital apparatus complies with Canadian ICES-003.
Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada.
FCC ID : THCTPS-1000A
This device complies with part 15 of the FCC rules.
Operation is subject to the following two conditions:
(1) This device may not cause harmful interference &
(2) This device must accept any interference received,including interference that may cause undesired operation.
LISTED
ME61

- Cleaning - Unplug the system from the power source before cleaning or polishing. Please adhere to the general cleaning guidelines found in this document's section: "Cleaning the System."
- Grounding- This equipment must be grounded. Never defeat the ground conductor or operate the equipment in the absence of a suitably installed ground conductor. Contact the appropriate electrical inspection authority or an electrician if you are uncertain that suitable grounding is available.
- Power-Cord Protection - Route the power cord so as to avoid it being walked on or pinched by items placed upon or against it, paying particular attention to the plugs, receptacles, and the point where the cord exits from the system.
- Attachments - Only use attachments as recommended by the manufacturer and in accordance to the system guidelines in this document.
- Lightning - Unplug this system during lightning storms or when unused for long periods of time.
- Servicing - Do not attempt to service the system yourself as opening or removing covers may expose you to dangerous voltages or other hazards, and will void the warranty. Refer all servicing to qualified service personnel.
- Storage - If you need to store the system, ensure that it is stored in a controlled environment to avoid damage. Refer to the codec documentation for further guidelines.
- Mobility & Portability – Before moving the system it is recommended that the power cord and other connected equipment are unplugged and disconnected. Securely close the case with its latches and use the carry handle to transport the system to another location.
- Damaged Equipment - Unplug the system from the outlet and refer servicing to qualified personnel under the following conditions:
  - When the power cord or plug is damaged or frayed.
  - If the system has been subjected to excessive shock by being dropped, or the unit has been damaged.
  - If the system fails to operate in accordance with the operating instructions.

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Safety Precautions

Warning

While this system is designed for portability and durability, users should use precaution during use and transportation of the system to ensure their safety and prevent damage to the unit.

For Customers In North America

This equipment complies to the limits for a Class A digital device, pursuant to Part 15 of the FCC Rules.

These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy, which may cause harmful interference to radio communications.

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment

Environmental Issues

Thank you for buying a product, which contributes to a reduction in pollution, and thereby helps save the environment. Our products reduce the need for travel and transport and thereby reduce pollution. Our products have either none or few consumable parts (chemicals, toner, gas, paper). Our products are low energy consuming products.

Battery handling

Batteries for the Remote Control are Long Life Alkaline batteries; please follow guidelines on the packing material for handling and disposal of the batteries.

Production of Products

Our factories employ efficient environmental methods for reducing waste and pollution and ensuring the products are recyclable.

Waste Handling

EU Battery and WEEE Directives

Your Avizia product may contain a user replaceable battery or a permanently affixed battery as indicated in the user manual. For product safety and data integrity reasons a permanently affixed battery should only be removed or replaced professionally by a repair technician or waste management professional. Please contact Avizia or an authorized service agent if the product fails to perform due to malfunction of the permanently affixed battery.

This symbol on a Avizia product, battery or packaging means that the product and/or battery should not be disposed of with your household waste.

It is your responsibility to dispose of your waste equipment and batteries separately from your household waste and in accordance with local laws and regulations. The correct disposal of your old equipment and batteries will help prevent potential negative consequences for the environment and human health.

Please use the nearest waste collection facility as directed by your municipality or your retailer.

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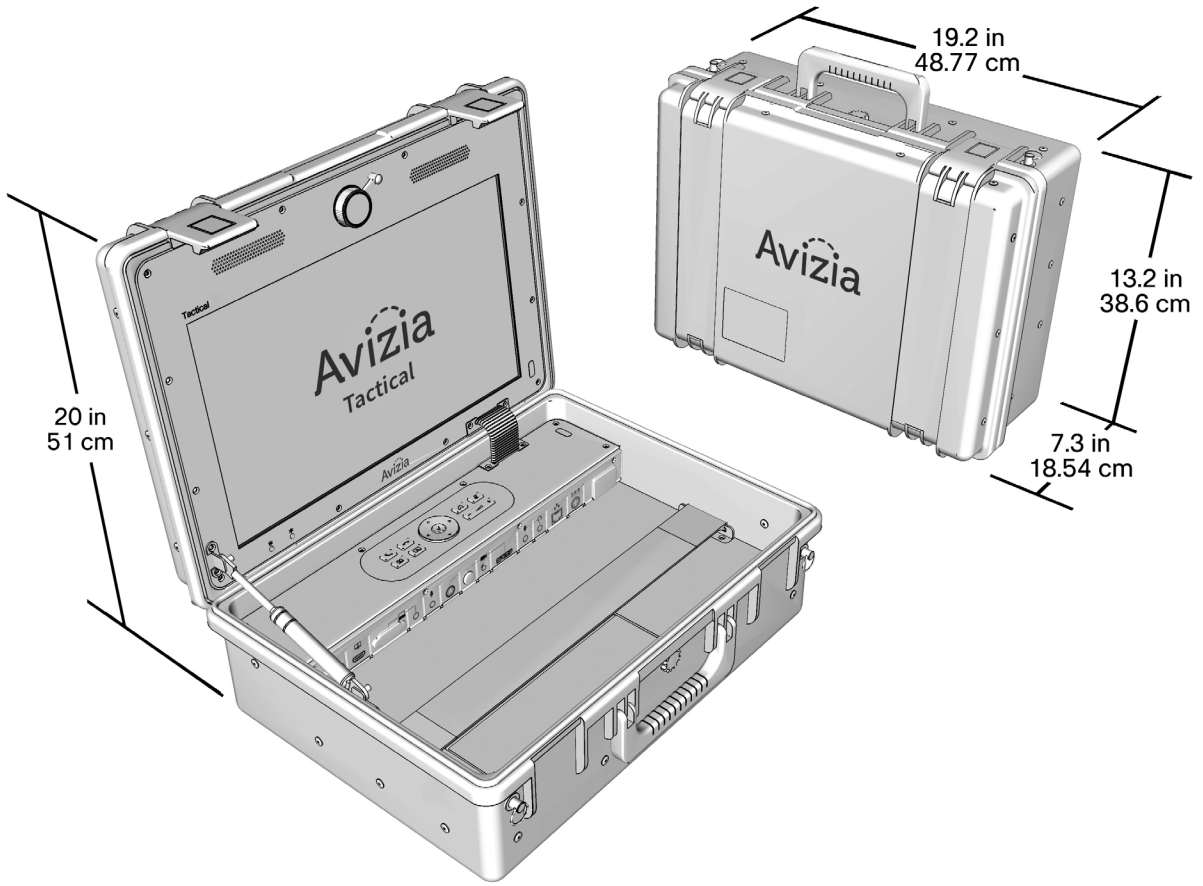
Introduction

The Tactical puts the power of video conferencing into a compact and mobile solution. Designed for portability and ease of use the Tactical is a high-definition video collaboration system with functionality that facilitates remote communication and collaboration.

This portable endpoint works with the Cisco TelePresence portfolio (which offers video recording, firewall traversal, and video management capabilities) and other standards based devices. The Tactical can help overcome the barrier of distance by enabling effective collaboration in any setting.

Key Features of Tactical:

- Water-, sand-, impact-, chemical- and corrosion-resistant case providing portability, durability and functionality.
- Cisco TelePresence SX20 codec featuring high-definition (HD) video and content sharing with full-duplex audio.
- Embedded 1080p HD camera and integrated speakers and microphone.
- Sunlight readable, optically bonded, 17.5-inch 720p60 HD display that is 3x stronger than standard screens.
- Tactile control panel offering simplified system control and a tethered infrared remote control for full system operation.
- AC and DC power options for system operation.
- Security hasps (2x) for securing the unit.



WEIGHT:
26.7 lbs
12.1 kg

DIMENSIONS:
D 7.3” (18.54 cm)
W 19.2” (48.77 cm)
L 15.2” (38.6 cm)
OPENED: 20” (51cm)

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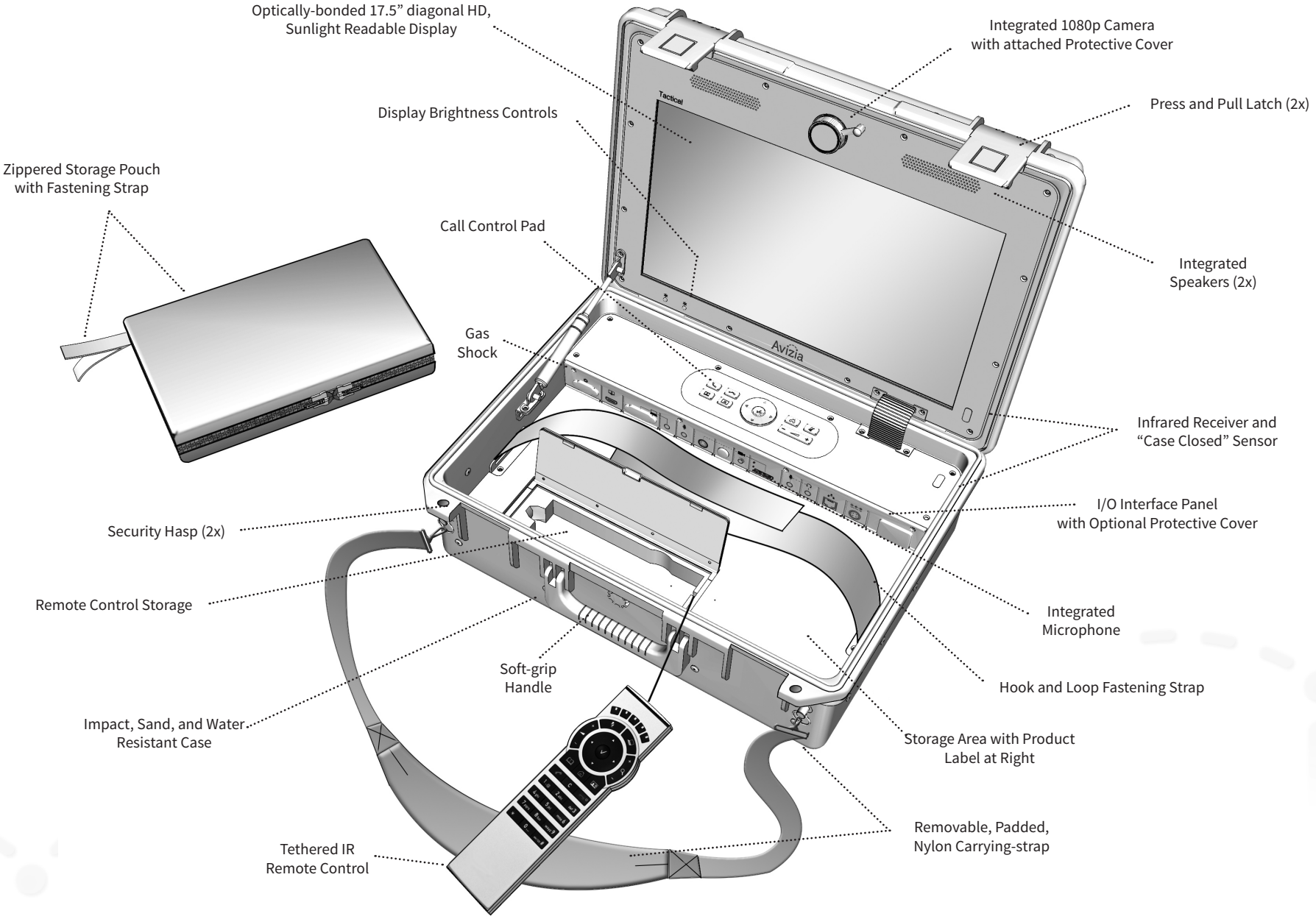
System Overview


Optically-bonded 17.5” diagonal HD, Sunlight Readable Display
Integrated 1080p Camera with attached Protective Cover
Press and Pull Latch (2x)
Display Brightness Controls
Zippered Storage Pouch with Fastening Strap
Call Control Pad
Integrated Speakers (2x)
Gas Shock
Infrared Receiver and “Case Closed” Sensor
I/O Interface Panel with Optional Protective Cover
Security Hasp (2x)
Remote Control Storage
Integrated Microphone
Soft-grip Handle
Hook and Loop Fastening Strap
Impact, Sand, and Water Resistant Case
Storage Area with Product Label at Right
Removable, Padded, Nylon Carrying-strap
Tethered IR Remote Control
Tactical
Avizia

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Display, Integrated Camera, Speakers, Microphone, and IR Sensors

Display

When powering on the system, the HD 17.5" (44.45 cm) sunlight-readable display will show a static image of the Avizia Tactical logo during codec boot up. This will persist on-screen until the system's codec has booted up fully.

The display is optically bonded making it much stronger than standard screens. It is highly impact resistant and able to endure harsh environments.

Brightness Control

Use the Brightness Control buttons to adjust the display's brightness to suit the environment.

Embedded Camera

The 1080p 1/3" CMOS camera can be manually focused by gently twisting the camera.

Integrated Speakers

System audio is heard through the waterproof stereo speakers. Connecting a headset into the HEADSET jack will switch system audio from the speakers to the headset.

Embedded System Microphone

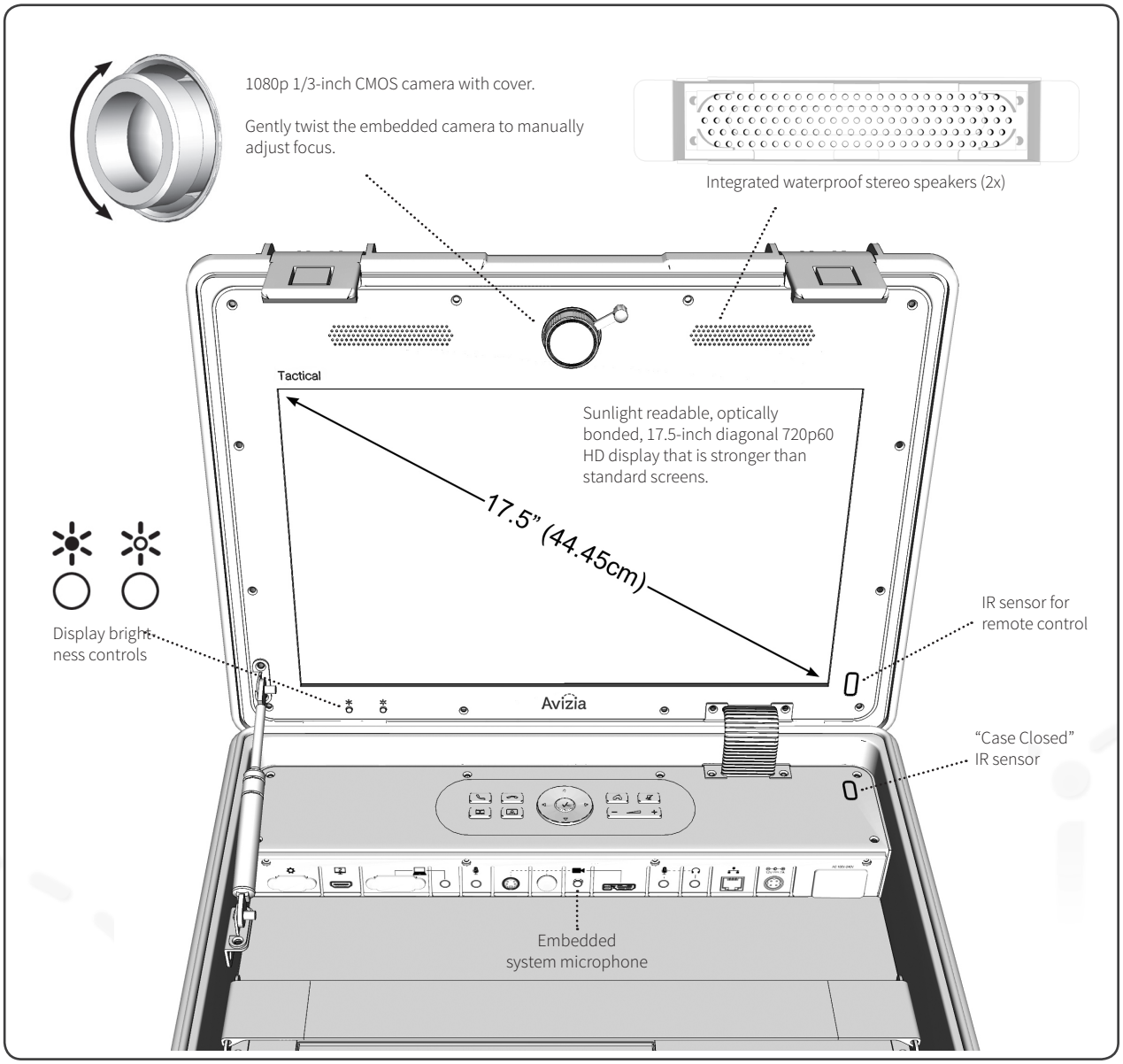
The embedded microphone is used to capture audio from local users. Connecting to MIC2 will supplement the call utilizing both the system mic and the secondary mic. Connecting a mic into headset MIC1 will switch the system mic off and enable the audio to be heard though MIC1 (and MIC2 if connected).

IR Sensors

The IR sensor at the corner of the display is used to receive commands from the tethered remote control.

The IR sensor found atop the interface panel triggers the display to enter "standby mode" when the case is closed. Both IR sensors must be clear of obstruction in order for the display to enter standby.

NOTE: Closing the case will disconnect all calls.


1080p 1/3-inch CMOS camera with cover.
Gently twist the embedded camera to manually adjust focus.
Integrated waterproof stereo speakers (2x)
Tactical
Sunlight readable, optically bonded, 17.5-inch diagonal 720p60 HD display that is stronger than standard screens.
17.5" (44.45cm)
Display brightness controls
IR sensor for remote control
"Case Closed" IR sensor
Avizia
Embedded system microphone

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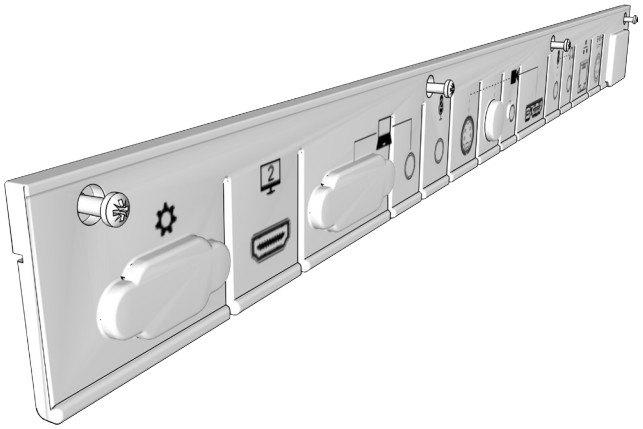
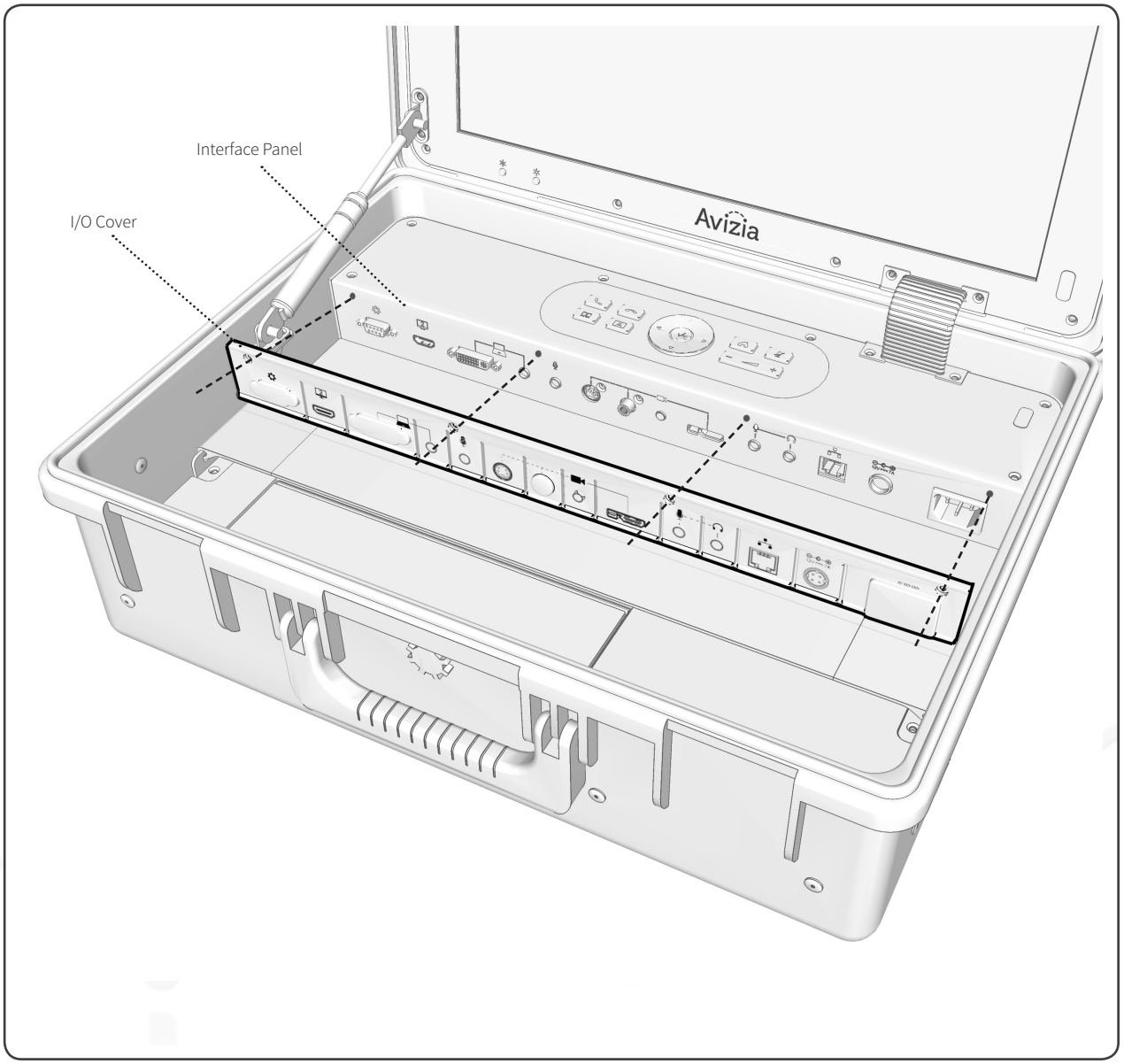
Installing the Optional I/O Cover





An optional I/O Cover is included and may be installed to provide additional protection for the connectors found on the Interface Panel.

1. Align the four (4) screw holes along the top of the Interface Panel with the I/O Cover and its corresponding holes.
2. Use a small Phillips screwdriver to secure the provided screws (4) to the holes on the Interface Panel.

To remove the I/O Cover, use a small Phillips screwdriver to remove the four (4) screws and pull the cover away from the system.

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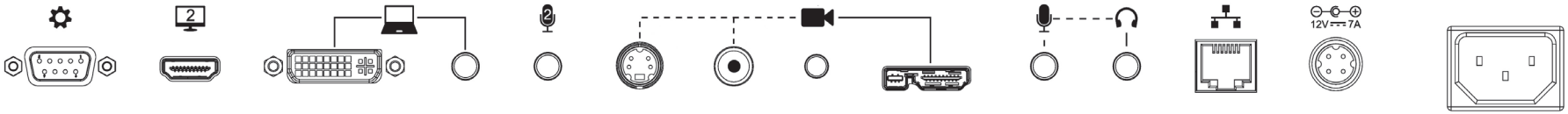
I/O Interface Panel



Serial Port

Administrative use only. Used for firmware upgrades and diagnostics. Only connect when instructed by certified Avizia technician. NOTE: This not a connection to the Codec.

HDMI Display Out

Connect a second display to HDMI 2 (e.g., for viewing on a larger screen).

Display output (HDMI 2) is configurable via system menus: SETTINGS > ADMINISTRATOR SETTINGS > ADVANCED CONFIGURATION > VIDEO > OUTPUT > **HDMI 2** using the Navigation Buttons.

PC (DVI-I In / Audio In)

Use the DVI-I connection to share content from a computer or other device to the Tactical screen and/or with remote participants.

PC Audio can be added by plugging in a 3.5mm audio plug.

Microphone 2 In

Connect a secondary room microphone to enhance the telepresence call.

If using the optional Cisco Performance Mic 20 microphone, the Mute Button will mute ALL system microphones, as will the Mute Button on the IR Remote.

NOTE: MIC2 audio can still be heard when a headset microphone is connected to MIC.

Camera (Video) In

When the system detects video from an alternate Camera video source, it will override the integrated Tactical camera. If there is no alternate source detected the system camera will be active.

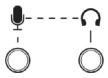
The order of priority for alternate sources begin with the HDMI connection. Camera control is available if using a Cisco Precision HD Camera.

The second and third priorities go to the Composite input and to the S-Video input respectively.

System Microphone

This is an embedded microphone to pick up audio from local users.

Headset and Microphone In



Connect a headset with microphone to the 3.5mm inputs to provide audio privacy in a public setting or clarity in a noisy environment.

The audio will be diverted from the Tactical speakers and will be heard only through the connected headset.

When a headset microphone is connected to MIC input, the embedded mic will be turned off. Audio from MIC2, if connected, can still be heard when a headset microphone is connected.

NOTE: This microphone input is designed for a 3-Pin 3.5mm connection.

Network In

Use the Ethernet connection to provide network for the Tactical.

DC Power In

The 12V DC Power 4-Pin DIN connection provides alternate power to the Tactical when AC Power (Primary) is not available. A DC-DC Convertor is provided to accommodate 12~32V DC.

AC Power In

Provide power to the Tactical using 100~240V AC 50-60Hz.

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Powering the System

The Tactical provides two options for powering the system.

NOTE:
The system will not operate unless connected to an appropriate power source.

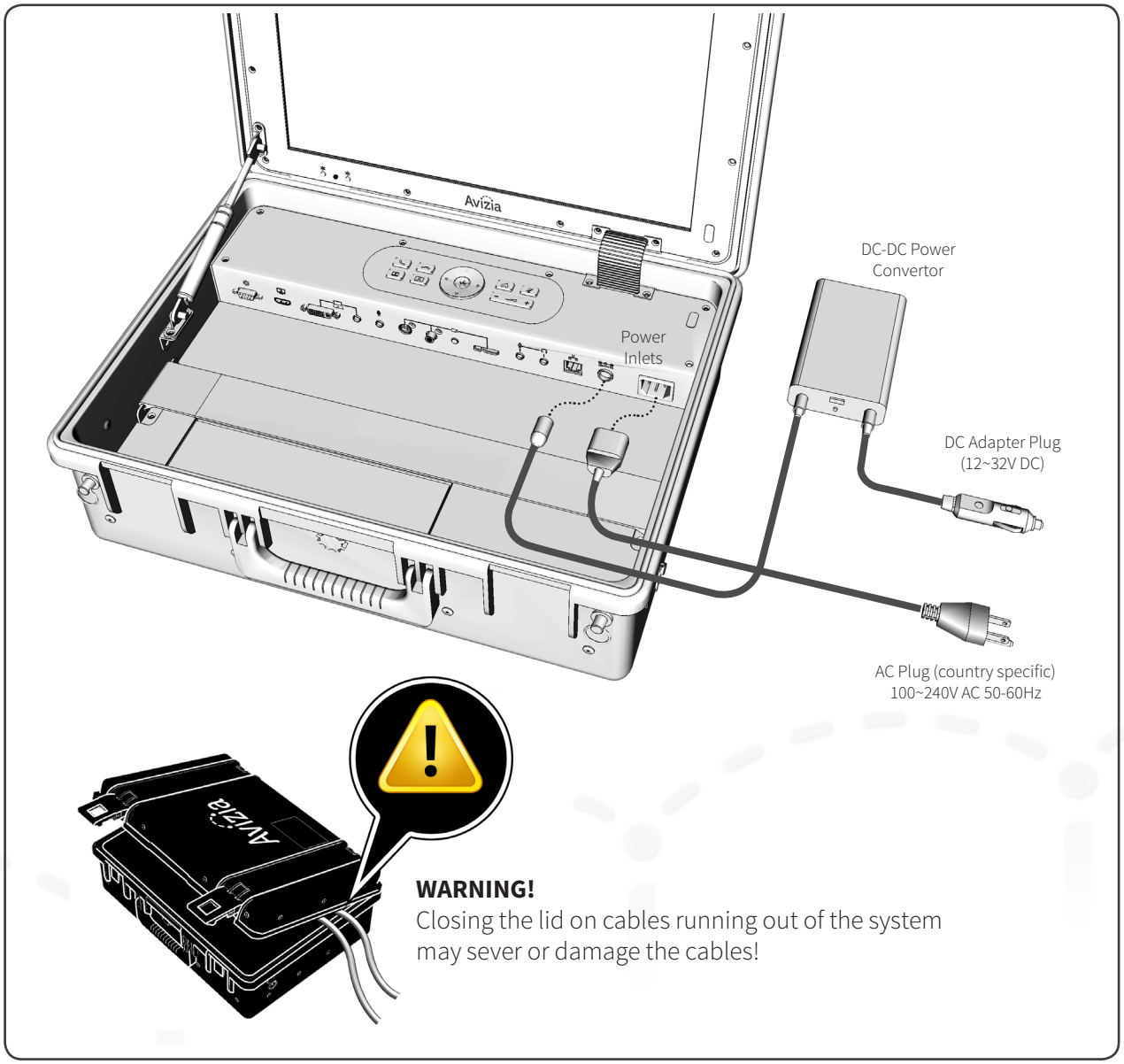
AC Power In

Provide power to the Tactical using 100~240V AC 50-60Hz. Use a country specific plug/adapter to supply power.

DC Power In

The 12V DC Power 4-Pin DIN connection provides alternate power to the Tactical when AC Power (Primary) is not available. A DC-DC Convertor is provided to accommodate 12~32V DC.

NOTE:
AC Power takes priority when both AC and DC power are connected -- the DC inlet will switch off when AC power is present. DC power will switch on when AC power is absent.



WARNING!
Closing the lid on cables running out of the system may sever or damage the cables!

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Call Control Pad and Remote Control

Call Control Pad

The Tactical features a simplified Call Control interface for quick operation and ease of use.

The green CALL button initiates a call,

The red DISCONNECT button ends a call.

The DIRECTORY button pulls up the manually maintained local directory menu and any remote corporate directories.

Press SELFVIEW to see what others will see from your camera when in a call.

The HOME button shows and hides the main menu.

MIC MUTE switches all connected microphones on and off.

The VOLUME CONTROL adjusts output audio levels from the system.

The NAVIGATION and OK buttons enable you to navigate the system's menu structure.

Remote Control

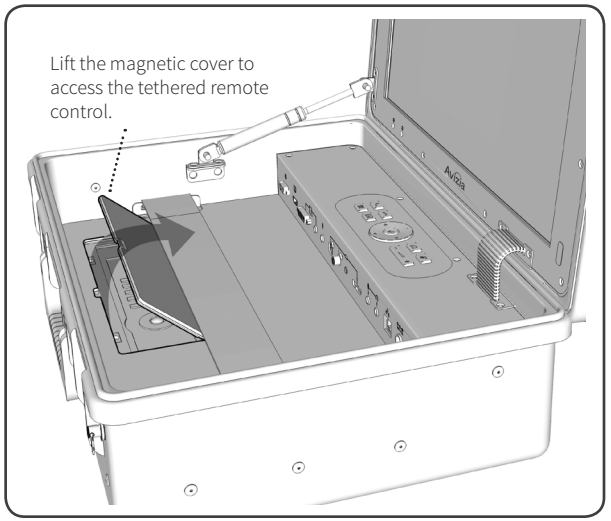
The tethered remote control is housed under a magnetically latched cover. Lift the cover to access the remote control.

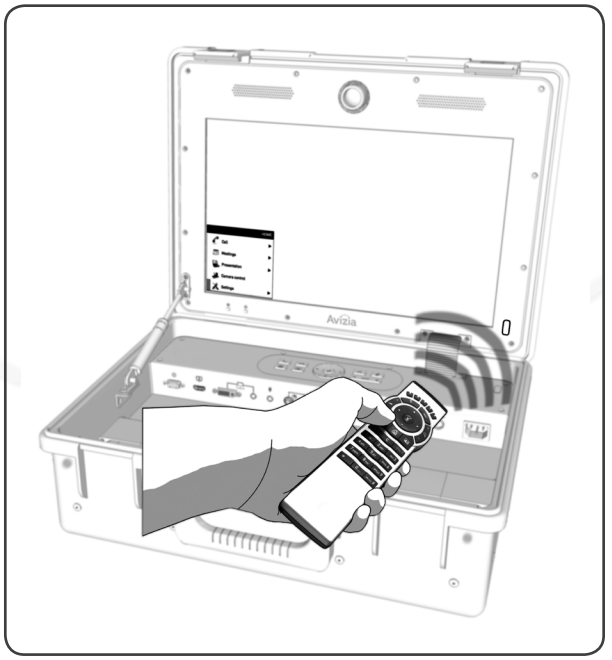
The retractable tether can extend up to 4' (120 cm).

To retract the remote, slightly pull the tether to release the catch and slowly return the remote control to its storage area.

NOTE: Detailed instructions for operating the Cisco Telepresence Remote Control can be found:

http://www.cisco.com/go/telepresence/docs





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Call Operation using the Call Control Pad

The Tactical's Call Control Pad has been designed to make receiving and placing a call quick and simple.

Answer an incoming call

Press the green CALL Button to answer an incoming call. The call will then use the built-in speakers or connected headset.

When in a call

Press SELFVIEW to see what others will see from your camera when in a call.

MIC MUTE toggles all connected microphones on and off.

The VOLUME CONTROL adjusts output audio levels from the system.

Disconnect or reject a call

Press the red DISCONNECT button to terminate a call or reject an incoming call.

Place a call

Press the DIRECTORY button to display the directory listing. Please note that all locally created directory entries are stored under "My Contacts." Additional directory entries will also be available if the system is configured on a network that can access them.

NOTE: Accessing corporate directories must be made available by a system administrator.

Use the NAVIGATION button to find and select the directory entry to call.

Press the OK button or the green CALL button to place the call.

NOTE: It is recommended that the "My Contacts" directory is pre-populated using the Remote Control. The simplified Call Control Pad limits the ability to create directory entries or enter numbers and characters to place a call "on-the-fly" without the aid of the tethered Remote Control.

TIP: When not in a call and all menus are closed, press the green CALL button to show the "Recent Calls" list.

Add a call

The Tactical can support up to three (3) additional video participants to a telepresence call with the MultiSite option enabled.

Add a call from Directory

When in a call, you may choose to add another participant by pressing the DIRECTORY button, using the NAVIGATION button to select the desired participant, and pressing either OK button or the green CALL button to add a call.

Add an incoming call

While in a call and a call request is presented, press the green CALL button to answer that incoming call.

Press the red DISCONNECT button to reject an incoming call.

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Call Operation using the Remote Control

While the operation principles are similar between the system's Call Control Pad and the Remote Control, the provided tethered Remote Control enables greater control of the Tactical's capabilities beyond what the Call Control Pad provides.

The following page shows an overview of the Remote Control's buttons and functions. Please refer to Cisco's documenation on the "TRC Remote" for detailed instruction on remote control operation.

Answer an incoming call

Press the green CALL button to answer an incoming call. The call will then use the built-in speakers or connected headset.

When in a call

Press SELFVIEW to see what others will see from your camera when in a call.

MIC MUTE toggles all connected microphones on and off.

The VOLUME CONTROL adjusts output audio levels from the system.

Disconnect or reject a call

Press the red DISCONNECT button to terminate a call or reject an incoming call.

Place a call from Directory

Press the DIRECTORY Button to display the directory listing. Please note that all locally created directory entries are stored under "My Contacts." Additional directory entries will also be available if the system is configured on a network that can access them.

NOTE: Accessing corporate directories must be made available by a system administrator.

Use the NAVIGATION button to find and select the directory entry to call.

Press the OK button or the green CALL button to place the call.

Place an ad hoc call

Press the HOME button or the OK button to bring up the Onscreen Menu and select Call.

Use the ALPHANUMERIC KEYPAD to enter a number or URI and press the green CALL button to place the call.

Add a call

When in a call, you may choose to add another participant by pressing the DIRECTORY button to select the desired participant, or enter a number or URI using the ALPHANUMERIC KEYPAD, and pressing either OK button or the green CALL button to add a call.

The Tactical may connect up to three (3) participants to the telepresence session if MultiSite is enabled for your system.

Add an incoming call

While in a call and a call request is presented, press the green CALL button to answer that incoming call.

Press the red DISCONNECT button to reject an incoming call.

Share Content

Pressing the PRESENTATION button will share the contents of a connected PC. Pressing the button again will switch back to showing the Main Camera source.

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Cleaning the System

In general, the unit's case material can be cleaned simply with a mild household detergent. As the case is a plastic product, stiff brushes should be avoided in cleaning the case, as these may scratch the surface.

NOTE: Scratches on the surface of the case will in no way impede its performance.

Please adhere to your organization's guidelines or protocol for handling and cleaning contaminated instruments.

1. Turn the system off -- Disconnect all power cords and adaptors from the electrical power source.

2. Wipe the unit with a clean, soft cloth dampened with a diluted mixture of mild detergent and water. Squeeze out excess liquid from the cloth.

3. Wipe again with clean, soft cloth dampened with clean water and wipe dry with clean, soft cloth.

NOTE: Use of certain detergents may cause degradation to the labels and plastic components. Consult detergent manufacturer to see if the product is compatible.

NOTE: Do not allow liquid to enter into the display.

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